

Frimley C of E School

Progression in Calculations

+ Addition +

Column Method (compact)

$$\begin{array}{r} 453 \\ +638 \\ \hline 1091 \\ \small{1} \end{array}$$

Carry across 10's, 100's or 1000's if necessary.

DON'T FORGET

Don't forget the 10's, 100's or 1000's that you have carried! Remember to store them underneath!

EXTENSION

Extend to decimals (money) and numbers with a different number of decimal places.

Column Method (expanded)

Partition
Add units
Add hundreds etc
Total

Partition the most significant digits first (100's), then the least significant digits (units), then add them together!

PROGRESSION

TU + TU
HTU + TU
HTU + HTU
Simple decimals

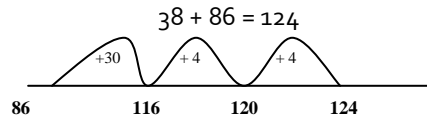
EXAMPLE

$$\begin{array}{r} 453 \\ + 638 \\ \hline 400 + 50 + 3 \\ 600 + 30 + 8 \\ \hline 1000 + 90 + 1 = 1091 \end{array}$$

Partitioning both numbers & recombining

$$\begin{aligned} 267 + 322 \\ = 200 + 300 + 60 + 20 + 7 + 2 \\ = 589 \end{aligned}$$

Partitioning one number on an empty number line



Remember to start with the biggest number first and partition the smallest!

PROGRESSION

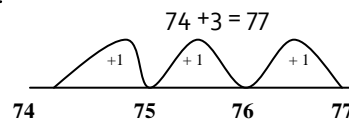
-Start by jumping in chunks of a maximum of 10, progressing to larger jumps.
-Continue by crossing the 10's or 100's barrier.

Remember to start with the biggest number first!

PROGRESSION

- Counting on in ones
- Counting on in tens (20 + 30)
- Counting on in tens (24 + 20)
- Counting on in hundreds

Counting using a number line or hundred square



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Counting on from a number (1-10)

Use equipment to count on (fingers included) from the biggest number. Some children may use a number line,

$$\begin{array}{c} \color{green}\bullet \color{green}\bullet \color{green}\bullet \\ \color{green}\bullet \color{green}\bullet \color{green}\bullet \end{array} + \begin{array}{c} \color{red}\bullet \color{red}\bullet \\ \color{red}\bullet \color{red}\bullet \end{array} = 9$$

Associated vocabulary

Add
Plus
Sum of
Total
Increase by
Counting on
More than
Altogether